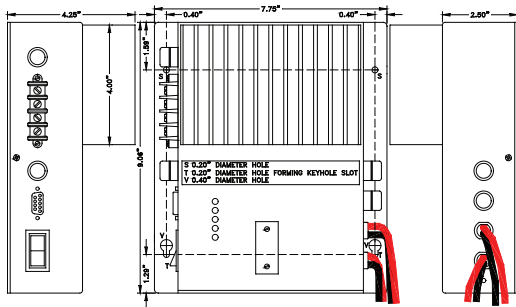


ANALYTIC SYSTEMS

Power Conversion Solutions

DC BATTERY CHARGER

MODEL BCD600 SERIES



Description

The BCD600 battery charger provides up to 600 watts to charge a 12V or 24V battery system (1 bank) from a 32V or 36V source. The source and the batteries under charge must share a common ground.

The all-new single board design incorporates state of the art switch-mode technology for unmatched efficiency and ultra-quiet operation. Multiple stages of filtering reduce radiated or conducted noise to very low levels. The BCD600 Series is capable of charging up to two independent banks of batteries.

The unit can be left permanently connected without fear of over-charge or damage to the batteries. The adjustable float voltage feature allows the unit to be used for any type of lead-acid battery including lead acid and gel cell. Available options include a remote control. We are confident that you will get many years of reliable service from this Battery charger.

Benefits

- Ultra-Quiet
- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation
- Fast & Accurate Charging

Design Features

- Advanced switch-mode technology
- Reliable power with minimum weight and size
- Complies with FCC Part 15, Class B standards
- UL listed to both USA & Canadian safety standards
- Input voltage can be set at 120VAC or 240VAC
- 3 year parts and labour warranty
- Advanced switch-mode technology
- Reliable power with minimum weight and size
- Complies with FCC Part 15, Class B standards
- UL listed to both USA & Canadian safety standards
- Input voltage can be set at 120VAC or 240VAC
- 3 year parts and labour warranty
- Advanced switch-mode technology
- Reliable power with minimum weight and size
- Complies with FCC Part 15, Class B standards
- UL listed to both USA & Canadian safety standards
- Input voltage can be set at 120VAC or 240VAC
- 3 year parts and labour warranty

Applications

- Marine & other rugged environments
- Mobile Offices (TV and Radio Vans)
- Automotive / RV / Military
- Electric Utilities and Substations
- Communications Systems
- Industrial Controls
- Field Work / Construction Sites
- Solar / Alternative Power Systems
- Emergency Backup Power (UPS)
- Charge any 12 or 24V Battery System

An ISO9001 and AS9100 Registered Company Battery Chargers • Inverters • Power Supplies • Voltage Converters

8128 River Way, Delta B.C. V4G 1K5 Canada T. 604.946.9981 F. 604.946.9983 TF. 800.668.3884 (US/CANADA)

www.analyticsystems.com

DC BATTERY CHARGER

MODEL BCD600 SERIES

Electrical (Input)

Model Number	BCD600-32-12	BCD600-32-24
Input Volts (DC)	20 – 45	30 – 45
Input Amps (max)	40	40
Input Fuse (AGC)	25A x 2	25A x 2
Noise on Input	< 25 mV	
Low Input Voltage Alarm	10.5V	

Electrical (Output)

Output Nominal (op)	12	24
Output Volts (DC)	13.6 ± 0.05	27.2 ± 0.05
Charging Amps	50 cont.	38 cont.
Output Adjustment (Vdc)	± 0.5V	
Output Crowbar	16.0 ± 0.5V	32.0 ± 1.0V
Output Fuse (AGC)	30A x 2	25A x 2
Output Ripple & Noise	< 25 mV	
Battery Banks	1	
Stages	2	
Battery Size (Amp Hours)	200-300	152-228
Regulation (Line & Load)	< +/- 0.5%	
Duty Cycle	Continuous 100% for 24 hours per day	
Efficiency	> 90% @ Maximum Output	

Environment Specification

Operating Temp. Range	-25° to +40°C @ maximum output Derate Linearly 2.5% per °C from 40°C (Optional -40°C extra wide temp. operation avail.)
Humidity	0 - 95% Relative Humidity (non-condensing) with optional conformal coating
Audible Noise	NONE Ødb @ 3 ft
Typical Service Life	> 10 yrs. (87,600 hrs)
Isolation	Any Input or Output to Case 500 VDC Input to Output – Common Negative

Mechanical Specification

Length	9.1 in / 23.1 cm
Width	7.8 in / 19.8 cm
Height	4.3 in / 10.9 cm
Material	Marine Grade Aluminium
Finish	Black Anodize / Powder Epoxy Coat
Fastenings	All 18-8 Stainless Steel
Weight	6.0 lb / 2.7 kg
Connections	#10 AWG Input Wires (Positive & Negative) Four contact output terminals
Warranty	3 years
Safety	Designed to meet CSA 22.2.107.1 & UL458

Note: Specifications are subject to change without notice.



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